

CLAIMS

What is claimed is:

1. A method for avoiding section collision for application server requests over a single database connection, the method comprising:

(a) receiving a first statement assigned a first command source identifier by a

database server from a first application source over a single database connection between the
5 database server and an application server;

(b) receiving a second statement assigned a second command source identifier by

the database server from a second application source over the single database connection,
wherein the first statement is substantially identical to the second statement; and

(c) executing the first statement assigned a first command source identifier

10 separately from and in parallel with the second statement assigned the second command
source without section collision.

2. The method of claim 1, wherein the first and second command source
identifiers are assigned by the application server.

15 3. The method of claim 1, wherein the first application source and the second
application source are different application sources within a same application.

4. The method of claim 1, wherein the first statement assigned the first
20 command source identifier and the second statement assigned the second command source

identifier is a single statement containing the first and second application sources, wherein a portion of the single statement pertaining to the first application source is assigned the first command source identifier, and wherein a portion of the single statement pertaining to the second application source is assigned the second command source identifier.

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5. The method of claim 1, wherein the first application source is within a first application and the second application source is within a second application.

10 6. The method of claim 1, wherein the first statement assigned the first command source identifier is a statement to open a cursor and wherein the second statement assigned the second command source identifier is a statement to open the same cursor.

15 7. The method of claim 6, wherein the executing (c) comprises:
(c1) creating a first instance of the cursor in response to the first statement assigned the first command source identifier;
(c2) assigning a first query identifier to the first instance of the cursor by the database server;
(c3) creating a second instance of the cursor in response to the second statement assigned the second command source identifier;
20 (c4) assigning a second query identifier to the second instance of the cursor by the database server; and
(c5) returning the first and second query identifiers to the application server.

8. A method for avoiding section collision for application server requests over a single database connection, the method comprising:

- (a) receiving a first statement to open a cursor by a database server over a single database connection between the database server and an application server;
- 5 (b) creating a first instance of the cursor in response to the first statement;
- (c) assigning the first instance a first query identifier;
- (d) receiving a second statement to open the same cursor by the database server over the single database connection before the first instance of the cursor closes;
- (e) creating a second instance of the cursor in response to the second statement;
- 10 and
- (f) assigning the second instance a second query identifier.

9. The method of claim 8, wherein the first and second query identifiers are assigned by the database server.

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10. The method of claim 8, further comprising:
(g) processing the first instance of the cursor separately from and in parallel with the second instance of the cursor.

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11. The method of claim 8, further comprising:
(g) returning the first and second query identifiers to the application server.

12. The method of claim 11, wherein subsequent statements received by the database server for the first instance of the cursor comprises the first query identifier.

5 13. The method of claim 11, wherein subsequent statements received by the database server for the second instance of the cursor comprises the second query identifier.

10 14. The method of claim 8, wherein the first statement is from a first application source and is assigned a first command source identifier, wherein the second statement is from a second application source and is assigned a second command source identifier.

15 15. A computer readable medium with program instructions for avoiding section collision for application server requests over a single database connection, comprising the instructions for:

15 (a) receiving a first statement assigned a first command source identifier by a database server from a first application source over a single database connection between the database server and an application server;

20 (b) receiving a second statement assigned a second command source identifier by the database server from a second application source over the single database connection, wherein the first statement is substantially identical to the second statement; and

20 (c) executing the first statement assigned a first command source identifier separately from and in parallel with the second statement assigned the second command source without section collision.

16. The medium of claim 15, wherein the first and second command source
identifiers are assigned by the application server.

5 17. The medium of claim 15, wherein the first application source and the second
application source are different application sources within a same application.

10 18. The medium of claim 15, wherein the first statement assigned the first
command source identifier and the second statement assigned the second command source
identifier is a single statement involving the first and second application sources, wherein a
portion of the single statement pertaining to the first application source is assigned the first
command source identifier, and wherein a portion of the single statement pertaining to the
second application source is assigned the second command source identifier.

15 19. The medium of claim 15, wherein the first application source is within a first
application and the second application source is within a second application.

20 20. The medium of claim 15, wherein the first statement assigned the first
command source identifier is a statement to open a cursor and wherein the second statement
assigned the second command source identifier is a statement to open the same cursor.

20 21. The medium of claim 20, wherein the executing instruction (c) comprises
instructions for:

(c1) creating a first instance of the cursor in response to the first statement assigned the first command source identifier;

(c2) assigning a first query identifier to the first instance of the cursor by the database server;

5 (c3) creating a second instance of the cursor in response to the second statement assigned the second command source identifier;

(c4) assigning a second query identifier to the second instance of the cursor by the database server; and

(c5) returning the first and second query identifiers to the application server.

10 22. A computer readable medium with program instructions for avoiding section collision for application server requests over a single database connection, comprising the instructions for:

(a) receiving a first statement to open a cursor by an database server over a single database connection between the database server and an application server;

15 (b) creating a first instance of the cursor in response to the first statement;

(c) assigning the first instance a first query identifier;

(d) receiving a second statement to open the same cursor by the database server over the single database connection before the first instance of the cursor closes;

20 (e) creating a second instance of the cursor in response to the second statement; and

(f) assigning the second instance a second query identifier.

23. The medium of claim 22, wherein the first and second query identifiers are assigned by the database server.

24. The medium of claim 22, further comprising instructions for:

5 (g) processing the first instance of the cursor separately from and in parallel with the second instance of the cursor.

25. The medium of claim 22, further comprising instructions for:

(g) returning the first and second query identifiers to the application server.

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26. The medium of claim 25, wherein subsequent statements received by the database server for the first instance of the cursor comprises the first query identifier.

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27. The medium of claim 25, wherein subsequent statements received by the database server for the second instance of the cursor comprises the second query identifier.

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28. The medium of claim 22, wherein the first statement is from a first application source and is assigned a first command source identifier, wherein the second statement is from a second application source and is assigned a second command source identifier.